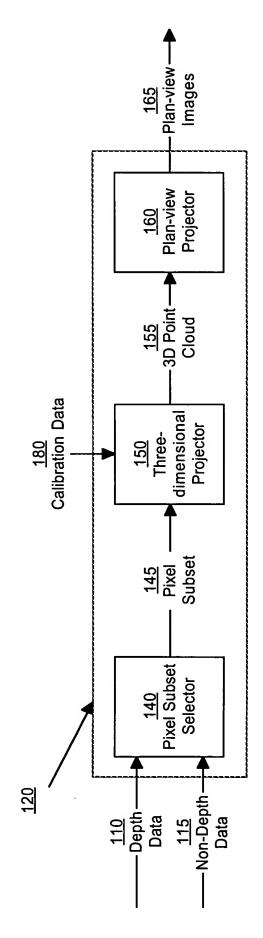
90

Figure 1B



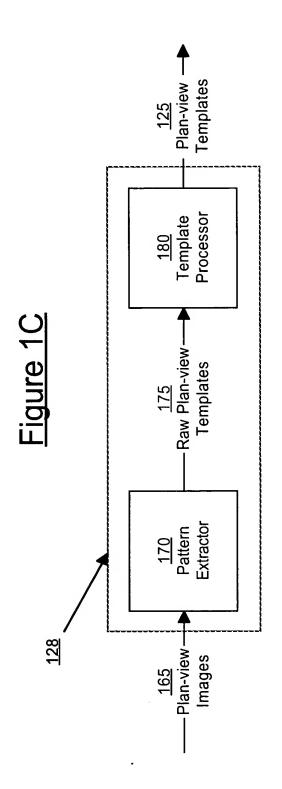


Figure 2A



Figure 2B

<u>210</u>



Figure 3

300

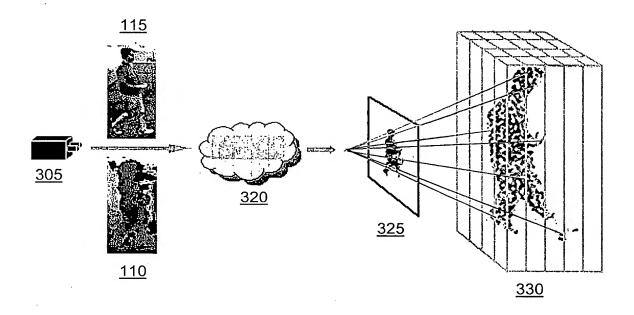


Figure 4

<u>400</u>

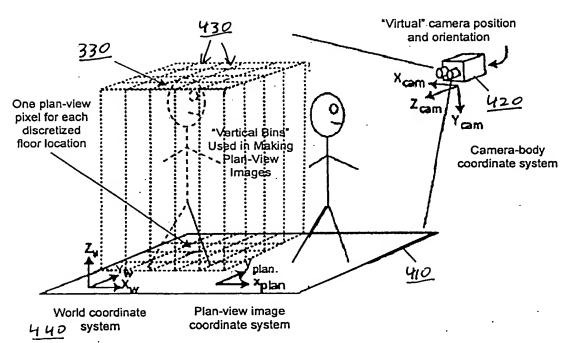
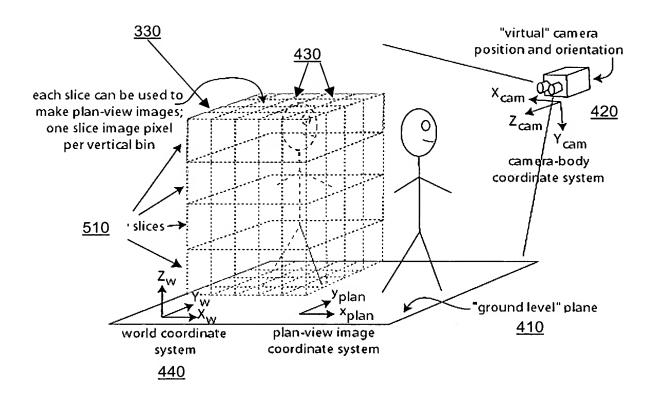
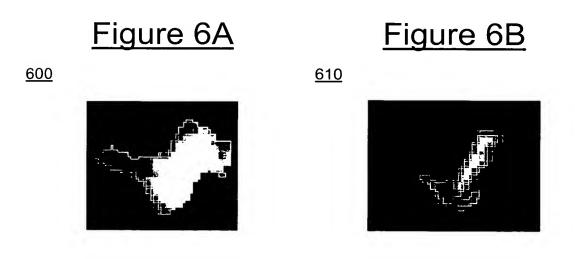
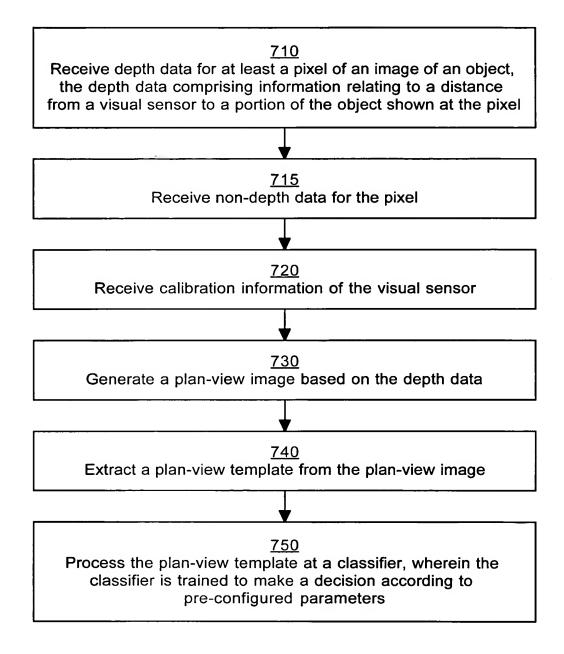


Figure 5

<u>500</u>







Select a subset of pixels of the image based on foreground extraction

820

Generate a three-dimensional point cloud of the subset of pixels based on the depth data, wherein a point of the three-dimensional point cloud comprises a three-dimensional coordinate

830

Divide the three-dimensional point cloud of the subset of pixels into a plurality of horizontal slices

840

Map at least a portion of the three-dimensional point cloud into at least one plan-view image based on the three-dimensional coordinate and

the depth data, wherein the plan-view image is a two-dimensional representation of the three-dimensional point cloud

840

<u>Figure 9</u>

Partition the three-dimensional point cloud into a plurality of vertically oriented bins, wherein a bin comprises one pixel

Compute at least one statistic of the points within the vertical bins

920

Map computed statistic of the points of the vertically oriented bins into at least one plan-view image